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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/871,723	06/04/2001	Ryuji Takahashi	Q63839	1424	
7	590 04/10/2003				
SUGHRUE, MION, ZINN, MACPEAK & SEAS, PLLC 2100 Pennsylvania Avenue, N.W. Washington, DC 20037-3213			EXAMINER WILSON, DONALD R		
			1713		
			DATE MAILED: 04/10/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.		Applicant(s)	9			
Office Action Summary		09/871,723		TAKAHASHI ET AL	/			
		Examiner		Art Unit				
		Donald R Wilson		1713				
The MAILING DATE of this communication app ars on the cover sheet with the correspondence address Period for Reply								
THE N - Exten after S - If the - If NO - Failur - Any re	DRTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howe within the statutory mini will apply and will expire S cause the application to	ver, may a reply be tin mum of thirty (30) day SIX (6) MONTHS from become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	mmunication.			
1)[🗆	Responsive to communication(s) filed on 19 F	<u>ebruary 2003</u> .		•				
2a)⊠	This action is FINAL . 2b) ☐ Thi	is action is non-fir	nal.		•			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	4) Claim(s) 2-7 and 9-23 is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠	i)⊠ Claim(s) <u>2-7,9-13 and 15-23</u> is/are allowed.							
6)⊠	☑ Claim(s) <u>14</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.								
Applicati	on Papers							
9)☐ The specification is objected to by the Examiner.								
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.								
If approved, corrected drawings are required in reply to this Office action.								
12) ☐ The oath or declaration is objected to by the Examiner.								
Priority u	ınder 35 U.S.C. §§ 119 and 120							
•	Acknowledgment is made of a claim for foreign	n priority under 35	U.S.C. § 119(a	a)-(d) or (f).				
a)[☑ All b)☐ Some * c)☐ None of:	J						
	1. Certified copies of the priority documents							
	2. Certified copies of the priority documents have been received in Application No							
* 9	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
a) ☑ The translation of the foreign language provisional application has been received.								
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.								
Attachment	t(s)							
2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>3</u>	5) 🔲		y (PTO-413) Paper No(Patent Application (PT0				

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DETAILED ACTION

Response to Amendment

- 1. Applicant's amendment filed 2/19/03, has been fully considered with the following results.
- 2. The amendment overcomes the outstanding rejections, which are withdrawn, with the exception of the rejection under 35 U.S.C. § 112, second paragraph, concerning the indefiniteness of the particle size limitation of Claim 14, and this regard the rejection is maintained as is discussed below.

Previously Cited Statutes

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office Action.

Claim Rejections - 35 USC § 112, Second Paragraph

- 4. Claim 14 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for falling to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The basis of this rejection was stated in Detailed Action § 17 of the previous Office Action.
- 5. Claim 14 is indefinite because it can not be told on what basis the average particle size is determined. Applicant traverses the rejection arguing that the average particle size is a weight average particle size. This is not deemed to be persuasive applicant provides no reason or basis that one of ordinary skill in the art would know from the specification as filed that the particle size was no a weight basis as opposed for instance to a number average, volume average, surface area average etc. As noted in the attached Interview Summary Record, applicant was called to see whether applicant could provide a basis, or to cancel the claim. However, applicant was unable to respond within the Examiner's time frame.
- 6. Except for very narrow particle size distributions, an atypical situation, average particle size can vary substantially with the basis of measurement. For example, a mean or average particle size by number, surface or volume means respectively, that there are an equal number of particles above and below the average, that the surface area of all particles above and below the average are equal, or that the volume of all particles above and below the average are equal. A detailed treatise of the methods of calculation may be found in C. Orr, "Size Measurement of Particles", KIRK-OTHMER ENCY. of CHEM.

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TECH., 3rd ed., John Wiley & Sons, New York, Vol. 21, pp. 10-131 (1983). As an example, using calculations in the above citation, it can be shown that particles with a GSD of 2.0 and a mean particle size by number of 10.0 µm, the mean particle sizes by surface and by volume would be 20.6 and 26.1 μm, respectively. Average particle sizes by different methods such as microscopy, Coulter Counter, sieving, and adsorption, are generally a particle size average based upon number, volume, weight and surface area, respectively. Thus, unless the basis of measurement is specified an average particle diameter is indefinite.

Action Is Final

- Applicant's amendment necessitated the new ground(s) of rejection presented in this Office 7. action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).
- A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Future Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donald R Wilson whose telephone number is 703-308-2398.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 703-308-2450. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications. The unofficial direct fax phone number to the Examiner's desk is 703-872-9029.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 308-2351.

> Donald R Wilson **Primary Examiner**

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